

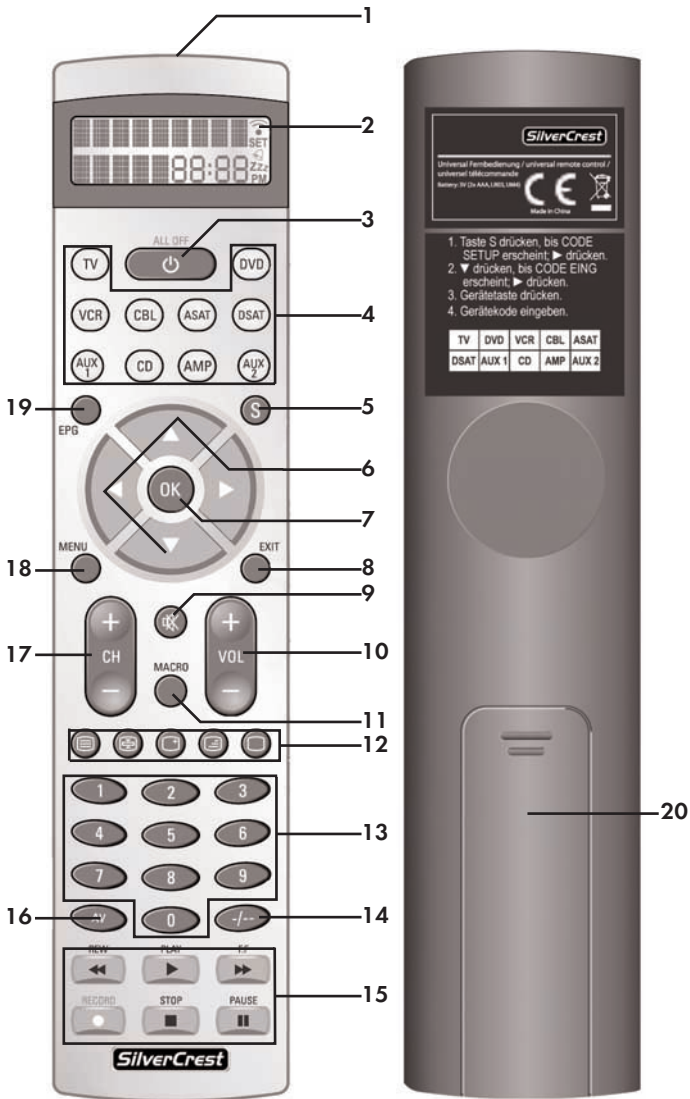
# UNIVERSAL REMOTE CONTROL



KH2150

**UNIVERSAL REMOTE CONTROL**

Operating instructions



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Read the operating instructions carefully before using the device for the first time and preserve these instructions for later reference. Hand over the instruction manual to whomsoever you might pass the device on to.

# UNIVERSAL REMOTE CONTROL KH2150

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## Safety

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### Proper use

Children may only operate the remote control under adult supervision.

The universal remote control can replace a maximum of ten remote controls. It can only be used for entertainment electronics with infrared receivers.

The functions of the universal remote correspond to those of the original remote controls. The universal remote control is intended for private use. It is not suitable for commercial use. Any other use is considered improper use. The manufacturer declines to accept responsibility for damage(s) arising from improper use.

### **⚠ Risk of injury through incorrect handling of batteries!**

Batteries must be handled with special care. Take note of the following safety instructions:

- Take the batteries out of the battery compartment as soon as they are empty.
- Do not throw batteries into a fire. Never subject batteries to high temperatures.
- If you will not be using the device for a longer period of time, remove the batteries to prevent them from discharging.
- Explosion hazard! Non-rechargeable batteries must never be recharged.
- Do not open the batteries or short-circuit them.
- Battery acid leaking from a battery can cause inflammation of the skin. In event of contact with the skin, rinse with large amounts of water. If the liquid comes into contact with your eyes, rinse thoroughly with water, do not rub and immediately consult a doctor.

### **Laser**

The universal remote control has an infrared diode of laser class 1. A safety system prevents the emission of hazardous laser radiation during use. To prevent eye injuries, do not modify or damage the safety system of the device.

## ***Damage to the device***

- If the device is defective, do not attempt to repair it yourself. In case of damage, contact the manufacturer or his service hotline (see Warranty section).
- If liquid escapes from the device or if the device has been otherwise damaged, it must be inspected by the manufacturer or his service hotline. Contact the manufacturer or his service hotline (see Warranty section).

## **Appliance Overview**

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- 1** Infrared transmitter/receiver
- 2** LCD display with text field, number field and symbol field
- 3** ALL OFF button
- 4** Device buttons
- 5** S button
- 6** Arrow buttons
- 7** OK button
- 8** EXIT button
- 9** Speaker button
- 10** VOL button
- 11** MACRO button
- 12** Video text buttons
- 13** Number buttons
- 14** Button for one-/two-digit programme numbers
- 15** Playback buttons and function buttons
- 16** AV button
- 17** CH button
- 18** MENU button
- 19** EPG button
- 20** Battery compartment

## First use

---

### Unpacking the device / checking the package contents

#### **⚠ Attention!**

Keep the plastic packaging well away from small children. There is a risk of suffocation.

- Unpack the device and accessories.
- Check the package contents
  - Universal remote control
  - Operating instructions
  - Manufacturer list with device code list
- Remove the protective foil from the LCD display (2).

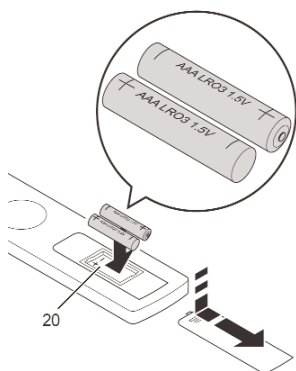
#### **ⓘ Note: Transport damage**

If you notice transport damage, contact customer service (see Warranty section).

### Inserting the batteries

#### **⚠ Attention!**

The universal remote control may only be operated with 1.5 volt batteries.



1. Open the battery compartment (20) in the direction indicated by the arrow.
2. Insert the batteries as shown in the figure and close the battery compartment.

The LCD display (2) is activated as long as the batteries are inserted.

The following figure shows the LCD display (2) after the batteries have been inserted or replaced.



## **Note:**

If the LCD display (2) remains dark, check the polarity of the batteries or insert new batteries.

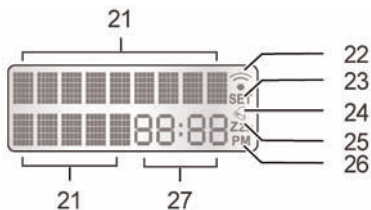
The LCD display (2) is explained in the section LCD display.

## Operating elements

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### LCD display

The LCD display (2) is divided into fields.



#### Text field (21)

The text field has two lines. The first line indicates the current device, such as DVD, TV or VCR. The second line shows the day of week information or device code.

Information in the LCD display (2) that is shown in the display on two lines is shown in these operating instructions on a single line.

Example

LCD display

SYSTEM-  
SETUP

Operating instructions

SYSTEM-SETUP

#### Infrared symbol (22)

Every time a button is pressed, an infrared signal is sent and the infrared symbol lights up.

#### SET symbol (23)

The SET symbol indicates that the remote control is in setup mode and device codes can be entered, for example.

#### Timer symbol (24)

The Timer symbol indicates that a timer function has been configured and is active.

#### Zzz symbol (25)

The SLEEPTIMER function for the television is activated. After the time elapses, the television will be switched off.



## AM/PM symbol (26)

If the time is set to 12-hour format, a PM symbol is displayed in the afternoon between 12:00 and 24:00. (See section SYSTEM-SETUP – System settings).

## Number field (27)

The display field for time and date information as well as the device code.

## Standard display



The standard display on the LCD display (2) consists of the information for the current device "TV", the day of the week "SUN" and the time "12:00".

How to change the settings for day of the week "SUN" and the time "12:00" is described in the sections DATE-SETUP and TIME-SETUP.

## Lighting

The LCD display (2) lights up as soon as you press a button on the remote control. The backlight switches off automatically. The backlight time can be configured. See the section "BACKLIGHT SETUP". The default setting is ten seconds.

## Buttons

### ALL OFF button (3)



Switch device on/off.

### Device buttons (4)

The device buttons are used to select which device should be operated. The TV button is permanently assigned, all other buttons can be freely configured.



Television



DVD player (Digital Versatile Disk)



Video recorder (Video Cassette Recorder)



Cable connection



Analogue satellite receiver



Digital satellite receiver



Auxiliary 1



CD player (Compact Disk)



Amplifier



Auxiliary 2

### S button (5)



Load SETUP menu or activate SHIFT function.

### Arrow buttons (6)



Move up, right, left and down in menus.

### OK button (7)



You can confirm a menu selection with the **OK** button.

### EXIT button (8)



Leave menu.

### Speaker button (9)



Switch sound on/off.

### VOL button (10)



Set volume.

### MACRO button (11)



Pressing the **MACRO** button (11) followed by a number button (13) **1**, **2** or **3** activates the saved commands.

## Video text buttons (12)



Switch on video text.



Stop automatic paging forward for multi-page video texts.



Display information on the selected device.



Show video text and television programme at the same time.



Switch off video text.

## Number buttons (13)



Enter programme and device code numbers.

## Button for one-/two-digit programme numbers (14)



Button for one-/two-digit programme numbers. For two-digit programme numbers, first press button (14), then enter the programme number with the number buttons (13).

## Playback buttons and function buttons (15)

The playback buttons **REW**, **PLAY**, **F.F**, **RECORD**, **STOP** and **PAUSE** control devices such as DVD players, VCRs and CD players. The coloured function buttons open categories in the video text selection.



**REW** – Rewind, video text, category red.



**PLAY** – Playback, video text, category yellow.



**F.F.** – Fast forward, video text, category blue.



**RECORD** – Record.  
Press twice to record.



**STOP** – Stop playback, video text, category green.



**PAUSE** – Pause playback, video text, category magenta.

## AV button (16)



Switch the video input (SCART).

## CH button (17)



Change the television channel.

## MENU button (18)

MENU



Open the menu.

## EPG button (19)

EPG



Depending on the selected device, the **EPG** button activates the following functions:

**TV/SAT** Access the electronic television programme guide.

**DVD :** Access the title menu.

**VCR :** Access ShowView.

### **Note:**

Consult the operating instructions of your VCR to learn whether the "ShowView" function is supported.

## SYSTEM-SETUP – System settings

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In the system settings, you can configure the following:

**VOL/MUTE SETUP** Volume control via a specific device.

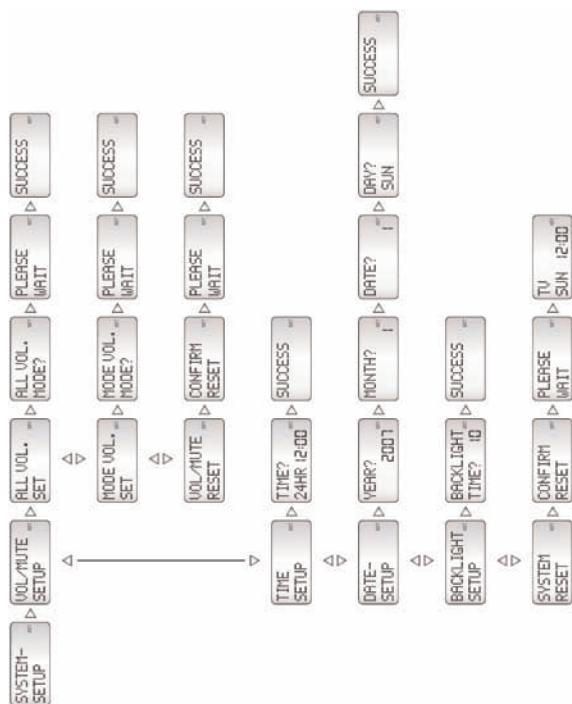
**TIME-SETUP** Time format and setting the time.

**DATE-SETUP** Setting the date, year and day of the week.

**BACKLIGHT SETUP** Backlighting of the LCD display (2).

**SYSTEM-RESET** Reset all settings.

## SYSTEM-SETUP overview



### VOL/MUTE SETUP

All devices use their own volume control, if available.

If a video device, such as a VCR or DVD player, does not have its own volume control, the volume control of the television device is automatically used ("punch-through function").

The function **VOL/MUTE SETUP** allows you to set the volume control to operate through a specific device, such as the television.

1. Hold the **S** button (5) pressed until **CODE-SETUP** appears in the LCD display (2).
2. Press the down arrow button (6). **SYSTEM-SETUP** appears in the LCD display (2).
3. Press the right arrow button (6). **VOL/MUTE SETUP** appears in the LCD display (2).
4. Press the right arrow button (6). **ALL VOL.SET** appears in the LCD display (2).
5. Press the right arrow button (6). **ALL VOL. MODE?** appears in the LCD display (2).
6. Press the desired device button (4), such as TV. **PLEASE WAIT...** then **SUCCESS** appears in the LCD display (2).  
The volume for all devices is now controlled via the TV.

## VOL/MUTE SET

Set the volume control for each individual device.

1. Hold the **S** button (5) pressed until **CODE-SETUP** appears in the LCD display (2).
2. Press the down arrow button (6). **SYSTEM-SETUP** appears in the LCD display (2).
3. Press the right arrow button (6). **VOL/MUTE SETUP** appears in the LCD display.
4. Press the right arrow button (6). **ALL VOL.SET** appears in the LCD display (2).
5. Press the down arrow button (6) repeatedly until **VOL/MUTE SET** appears in the LCD display (2).
6. Press the right arrow button (6). **MODE VOL. MODE?** appears in the LCD display (2).
7. Press the desired device button (4), such as "DVD". **PLEASE WAIT...** then **SUCCESS** appears in the LCD display (2).

The volume is set via the selected device. Automatic switching to the volume control on the television is deactivated.

## VOL/MUTE RESET

Reset all VOL/MUTE settings to the factory defaults.

1. Hold the **S** button (5) pressed until **CODE-SETUP** appears in the LCD display (2).
2. Press the down arrow button (6). **SYSTEM-SETUP** appears in the LCD display (2).
3. Press the right arrow button (6). **VOL/MUTE SETUP** appears in the LCD display (2).
4. Press the right arrow button (6). **ALL VOL.SET** appears in the LCD display (2).
5. Press the down arrow button (6) repeatedly until **VOL/MUTE RESET** appears in the LCD display (2).
6. Press the right arrow button (6). **CONFIRM RESET** appears in the LCD display (2).
7. Press the right arrow button (6). First **PLEASE WAIT...** then **SUCCESS** appears in the LCD display (2).

The remote control is reset to the factory defaults of the manufacturer.

## TIME-SETUP

Set the time format and the time.

### **Note:**

*Press the up or down arrow button (6) for 12-hour display. All other settings are explained using 24-hour display as example.*

1. Hold the **S** button (5) pressed until **CODE-SETUP** appears in the LCD display (2).
2. Press the down arrow button (6). **SYSTEM-SETUP** appears in the LCD display (2).
3. Press the right arrow button (6). **VOL/ MUTE SETUP** appears in the LCD display (2).

4. Press the down arrow button (6) repeatedly until **TIME-SETUP** appears in the LCD display (2).
5. Press the right arrow button (6). **TIME? 24HR 12:00** appears in the LCD display (2). The message **24HR** blinks.

**i Note:**

*Press the up or down arrow button for (6) 12-hour display. All other settings are explained using 24-hour display as example.*

6. Press the right arrow button (6). **TIME? 24HR 12:00** appears in the LCD display(2). The hours value blinks.
7. Press the up or down arrow button (6) to set the hours.
8. Press the right arrow button (6). The minutes value blinks.
9. Press the up or down arrow button (6) to set the minutes.
10. Press the right arrow button (6). **SUCCESS** appears in the LCD display (2).
11. Press the **EXIT** button (8) repeatedly until the standard display appears in the LCD display (2).

**i Note:**

*If no button is pressed for approx. 30 seconds, the message **TIMEOUT** appears in the LCD display (2). Then the standard display is shown automatically.*

## **DATE-SETUP**

Set the year, month, date and day of the week.

1. Hold the **S** button (5) pressed until **CODE-SETUP** appears in the LCD display (2).
2. Press the down arrow button (6). **SYSTEM-SETUP** appears in the LCD display (2).
3. Press the right arrow button (6). **VOL/MUTE SETUP** appears in the LCD display (2).
4. Press the down arrow button (6) repeatedly until **DATE-SETUP** appears in the LCD display (2).
5. Press the right arrow button (6). **YEAR? 2006** appears in the LCD display (2). The numbers for the year blink.
6. Press the up or down arrow button (6) to set the year.
7. Press the right arrow button (6). **MONTH? 1** appears in the LCD display (2). The month value blinks.
8. Press the up or down arrow button (6) to set the month.
9. Press the right arrow button (6). **DATE? 1** appears in the LCD display (2). The date value blinks.
10. Press the up or down arrow button (6) to set the day.
11. Press the right arrow button (6). **DAY? SUN** appears in the LCD display (2). The letters for the day of the week blink.
12. Press the up or down arrow button (6) to set the day of the week.
13. Press the right arrow button (6). **SUCCESS** appears in the LCD display (2).
14. Press the **EXIT** button (8) repeatedly until the standard display appears in the LCD display (2).

**ⓘ Note:**

If no button is pressed for approx. 30 seconds, the message *TIMEOUT* appears in the LCD display (2). Then the standard display is shown automatically.

## **BACKLIGHT SETUP**

Set the backlight time for the LCD display (2).

The backlight time can be changed in five second steps.

1. Hold the **S** button (5) pressed until **CODE-SETUP** appears in the LCD display (2).
2. Press the down arrow button (6). **SYSTEM-SETUP** appears in the LCD display (2).
3. Press the right arrow button (6). **VOL/MUTE SETUP** appears in the LCD display (2).
4. Press the down arrow button (6) repeatedly until **BACKLIGHT SETUP** appears in the LCD display (2).
5. Press the right arrow button (6). **BACKLIGHT TIME 10** appears in the LCD display (2). The seconds value blinks.
6. Press the up or down arrow button (6) to set the seconds.
7. Press the right arrow button (6). **SUCCESS** appears in the LCD display (2).
8. Press the **EXIT** button (8) repeatedly until the standard display appears in the LCD display (2).

**ⓘ Note:**

If no button is pressed for approx. 30 seconds, the message *TIMEOUT* appears in the LCD display (2). Then the standard display is shown automatically.

## **SYSTEM-RESET**

The remote control can be reset to the factory defaults.

**ⓘ Note:**

*All device codes, the system settings, all learned functions and macros are deleted!*

1. Hold the **S** button (5) pressed until **CODE-SETUP** appears in the LCD display (2).



2. Press the down arrow button (6). **SYSTEM-SETUP** appears in the LCD display (2).
3. Press the right arrow button (6). **VOL/MUTE SETUP** appears in the LCD display (2).
4. Press the down arrow button (6) repeatedly until **SYSTEM-RESET** appears in the LCD display (2).
5. Press the right arrow button (6). **CONFIRM RESET** appears in the LCD display (2).
6. Press the right arrow button (6). **PLEASE WAIT...** appears in the LCD display (2). All system settings are reset to the factory defaults.

## CODE-SETUP – Device code

---

To control a device with the remote control, a device code must be entered for every device.

The device codes can be entered as follows:

- LIST CODES** From the internal device list of the remote control.
- ENTER CODES** From the additional manual with the device codes.
- SEARCH CODES** Automatically or manually search for codes.
- BRAND CODES** From the table of manufacturer codes.

### LIST CODES

Select the device code for a device (TV, VCR, LD, DVD etc.) from the internal list on the remote control.

#### **Note:**

*To conclude your input, press the EXIT button (8).*

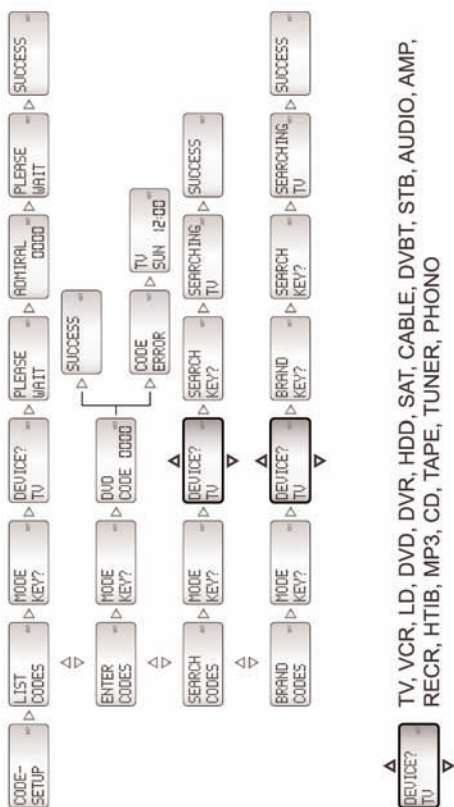
1. Switch on the device for which you would like to program the remote control.
2. Hold the S button (5) pressed until **CODE-SETUP** appears in the LCD display (2).
3. Press the right arrow button (6). **LIST CODES** appears in the LCD display (2).
4. Press the right arrow button (6). **MODE KEY?** appears in the LCD display (2).
5. Press the desired device button (4). **DEVICE? TV** appears in the LCD display (2).

#### **Note:**

*For a television, press the device button TV (4), then continue with step 7.*

6. Press the up or down arrow button (6). The next device appears in the LCD display (2).

## CODE-SETUP overview



7. Confirm the selection with the **OK** button (7). First **PLEASE WAIT...** then the first entry of the manufacturer list, such as **ADMIRAL 0000**, appears in the LCD display (2).
8. Press the up or down arrow button (6). The next manufacturer with device code appears in the LCD display (2).
9. Press various buttons on the remote control to test the functions. If your device responds, you have selected the correct device code. Continue with step 12.
10. Press the left or right arrow button (6). The next device code of the same manufacturer appears in the LCD display (2).
11. Repeat step 9.
12. Press the **OK** button (7). The device code is saved. First **PLEASE WAIT...** then **SUCCESS** appears in the LCD display (2).

Repeat steps 1 to 12 for all devices that you would like to control with the remote control.

## ENTER CODES

With the **ENTER CODES** function, you locate the device code in the enclosed manual "Manufacturer List with Device Code List".

### **Note:**

To conclude your input, press the **EXIT** button (8).

1. Switch on the device for which you would like to program the remote control.
  2. Hold the **S** button (5) pressed until **CODE-SETUP** appears in the LCD display (2).
  3. Press the right arrow button (6). **LIST CODES** appears in the LCD display (2).
  4. Press the down arrow button (6). **ENTER CODES** appears in the LCD display (2).
  5. Press the right arrow button (6). **MODE KEY** appears in the LCD display (2).
  6. Press the desired device button (4). The LCD display (2) shows **CODE 0001**, for example. Find the device code in the manual "Manufacturer List with Device Code List".
  7. Enter the device code with the number buttons (13). **SUCCESS** appears in the LCD display (2). If the entered device code is incorrect, the message **CODE ERROR** appears in the LCD display (2). Repeat steps 2 to 8.
- Repeat steps 1 to 8 for all devices that you would like to operate.

## SEARCH CODES

### Automatic search

Automatically search for the device code within the internal list of the remote control.

### **Note:**

To conclude your input, press the **EXIT** button (8).

1. Switch on the device for which you would like to program the remote control.
2. Hold the **S** button (5) pressed until **CODE-SETUP** appears in the LCD display (2).
3. Press the right arrow button (6). **LIST CODES** appears in the LCD display (2).
4. Press the down arrow button (6) repeatedly until **SEARCH CODES** appears in the LCD display (2).
5. Press the right arrow button (6). **MODE KEY?** appears in the LCD display (2).
6. Press the desired device button (4). **DEVICE? TV** appears in the LCD display (2).

**i Note:**

For a television, press the device button TV (4), then continue with step 8.

7. Press the up or down arrow button (6). The next device appears in the LCD display (2).
8. Confirm the selection with the **OK** button (7). **SEARCH KEY?** appears in the LCD display (2).

**i Note:**

The remote control switches the device code every second and sends an infrared signal. To set the time to three seconds, press the **CH** button (17) twice during the next step.

9. Press the **CH** button (17) once. **SEARCHING...** appears in the LCD display (2). The remote control automatically searches for the device code for your device.

**i Note:**

The remote control searches the device list in the forward direction. To change the search direction, press "Minus" on the **CH** button (17). To return to a forward search, press "Plus" on the **CH** button (17).

10. As soon as your device reacts, press the **OK** button (7). The device code is saved. **SUCCESS** appears in the LCD display (2).
11. Press various buttons on the remote control to check the setting. If your device only partially responds, repeat the steps with the next device code.

### Manual search

Manually search for the device code within the internal list of the remote control.

**i Note:**

To conclude your input, press the **EXIT** button (8).

1. Switch on the device for which you would like to program the remote control.
2. Hold the **S** button (5) pressed until **CODE-SETUP** appears in the LCD display (2).
3. Press the right arrow button (6). **LIST CODES** appears in the LCD display (2).
4. Press the down arrow button (6) repeatedly until **SEARCH CODES** appears in the LCD display (2).
5. Press the right arrow button (6). **MODE KEY?** appears on the LCD display (2).
6. Press the desired device button (4). **DEVICE? TV** appears in the LCD display (2).

**i Note:**

For a television, press the device button TV (4), then continue with step 8.

7. Press the up or down arrow button (6). The next device appears in the LCD display (2).
8. Confirm the selection with the **OK** button (7). **SEARCH KEY?** appears on the LCD display (2).

**i Note:**

The remote control searches the device list in the forward direction. To change the search direction, press "Minus" on the **CH** button (17). To return to a forward search, press "Plus" on the **CH** button (17).

9. Press the "Plus" **CH** button (17) repeatedly until your device responds.
10. Press the **OK** button (7). The device code is saved. **SUCCESS** appears in the LCD display (2).
11. Press various buttons on the remote control to check the setting. If your device only partially responds, repeat the steps with the next device code.

## BRAND CODES

Select a manufacturer code from the "Manufacturer codes" table. The table can be found at the end of the operating instructions.

**i Note:**

To conclude your input, press the **EXIT** button (8).

1. Switch on the device for which you would like to program the remote control.
2. Hold the **S** button (5) pressed until **CODE-SETUP** appears in the LCD display (2).
3. Press the right arrow button (6). **LIST CODES** appears in the LCD display (2).
4. Press the down arrow button (6) repeatedly until **BRAND CODES** appears in the LCD display (2).
5. Press the right arrow button (6). **MODE KEY?** appears in the LCD display (2).
6. Press the desired device button (4). **DEVICE? TV** appears in the LCD display (2).

**i Note:**

For a television, press the device button TV (4), then continue with step 8.

7. Press the up or down arrow button (6). The next device in the list is displayed.

### **i Note:**

All entries in the device list can be found in the overview graphic.

8. Confirm the selection with the **OK** button (7).  
**BRAND CODES?** appears in the LCD display (2).
9. Search for the manufacturer code in the "Manufacturer codes" table in the appendix to these operating instructions.
10. Enter the manufacturer code with the number buttons (13). **SEARCH KEY?** appears in the LCD display (2).
11. Press the **CH** button (17) until the device responds.  
**SEARCH...** appears in the LCD display (2).

### **i Note:**

To change the search direction, press "Minus" on the **CH** button (17).

12. Press the **OK** button (7). The device code is saved.  
**SUCCESS** appears in the LCD display (2).
13. Press various buttons on the remote control to test the functions. If your device only partially responds, repeat steps 1 to 11 with a different manufacturer code from the table.

Repeat steps 1 to 11 for all devices that you would like to operate.

## **Entering device codes for combination devices**

For combination devices, such as television/VCR or DVD/VCR, it is necessary to enter a device code for each device type.

## **Controlling combination devices**

Some combination devices, such as TV/VCR or DVD/VCR, have separate device buttons on the original remote control.

1. Press device button (4) **DVD**. The DVD signal is sent.
2. Press the **S** button (5). **DVD (S) DATE 1: 1** appears in the LCD display (2).
3. Press device button (4) **DVD**. The VCR signal is sent.

### **i Note:**

Not all devices support switching between two devices with the **S** button (5).

## **Display device code**

The current device code for each device can be displayed.

- Press and hold the device button (4). The LCD display (2) shows **DVD CODE 0768**, for example.

### **i Note:**

Note the identified device code in the table "Personal device codes" at the end of these operating instructions.

# TIMER SETUP – Timer functions

Program the automatic switch-off function **SLEEPTIMER** and the automatic switch-on function "TIMER".

See the graphic "TIMER-SETUP overview".

## TV SLEEP SETUP

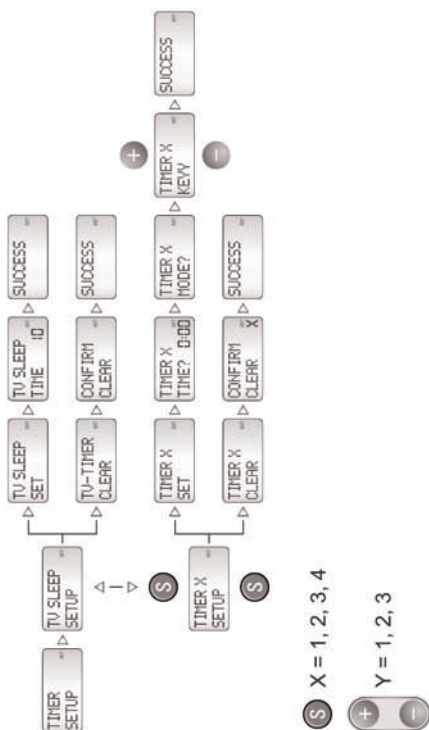
The **SLEEPTIMER** function automatically switches off the television after the configured time has elapsed. The **SLEEPTIMER** function can be set between 1 and 90 minutes.

### TV SLEEP SET

Programming the **SLEEPTIMER** function.

1. Switch on the television.
2. Hold the **S** button (5) pressed until **CODE-SETUP** appears in the LCD display (2).
3. Press the down arrow button (6) repeatedly until **TIMER-SETUP** appears in the LCD display (2).
4. Press the right arrow button (6). **TV SLEEP SETUP** appears in the LCD display (2).

### TIMER-SETUP overview



5. Press the right arrow button (6). **TV-SLEEP SET** appears in the LCD display (2).
6. Press the right arrow button (6). **TV SLEEP TIME?** appears in the LCD display (2). The minutes value blinks.

### **Note:**

Select a value between 1 and 90 minutes.

7. Press the up or down arrow button (6) to set the minutes.
8. Press the right arrow button (6). **SUCCESS** and the Zzz symbol (25) appear in the LCD display (2).
9. Point the remote control at the television. After the configured number of minutes elapse, the remote control will switch off the television.
10. Press the **EXIT** button (8) repeatedly until the standard display appears in the LCD display (2).

### **Note:**

If no button is pressed for approx. 30 seconds, the message "TIMEOUT" appears in the LCD display (2). Then the standard display is shown automatically.

## **TV SLEEP CLEAR**

Switching off the **SLEEPTIMER** function for the television.

1. Hold the **S** button (5) pressed until **CODE-SETUP** appears in the LCD display (2).
2. Press the down arrow button (6) repeatedly until **TIMER-SETUP** appears in the LCD display (2).
3. Press the right arrow button (6). **TV SLEEP SET** appears in the LCD display (2).
4. Press the right arrow button (6). **TV SLEEP CLEAR** appears in the LCD display (2).
5. Press the right arrow button (6). **CONFIRM CLEAR** appears in the LCD display (2).
6. Press the right arrow button (6). **SUCCESS** appears in the LCD display (2).
7. Press the **EXIT** button (8) repeatedly until the standard display appears in the LCD display (2).

### **Note:**

If no button is pressed for approx. 30 seconds, the message "TIMEOUT" appears in the LCD display (2). Then the standard display is shown automatically.

## **TIMER SETUP**

### **Note:**

If a timer is already programmed, this must be cleared. See the section "TIMER X CLEAR".

The remote control can be programmed with four timers.

Each timer can switch on one device.

Each timer can be programmed with up to three buttons in sequence.



## TIMER X SET

Programming **TIMER X**. The "X" is a placeholder and stands for 1, 2, 3 or 4.

All settings are described using **TIMER 1** as an example.

1. Hold the **S** button (5) pressed until **CODE-SETUP** appears in the LCD display (2).
2. Press the down arrow button (6) repeatedly until **TIMER-SETUP** appears in the LCD display (2).
3. Press the right arrow button (6). **TV SLEEP SETUP** appears in the LCD display (2).
4. Press the down arrow button (6) until **TIMER 1 SETUP** appears in the LCD display (2).
5. Press the right arrow button (6). **TIMER 1 SET** appears in the LCD display (2).
6. Press the right arrow button (6). **TIMER 1 TIME? 0:00** appears in the LCD display (2). The hours value blinks.
7. Press the up or down arrow button (6) to set the hours.
8. Press the right arrow button (6). The minutes value blinks.
9. Press the up or down arrow button (6) to set the minutes.
10. Press the right arrow button (6). **TIMER 1 MODE?** appears in the LCD display (2).
11. Press the desired device button (4). **TIMER 1 KEY 1** appears in the LCD display (2).

### **Note:**

To save fewer than three buttons, press the **OK** button (7).

12. Press the desired buttons. The messages **TIMER 1 KEY2**, **TIMER 1 KEY3**, **SUCCESS**, and then **CODE-SETUP** appear in sequence on the LCD display (2).
13. Press **EXIT** (8) repeatedly until the device, day of the week and time appear in the LCD display (2). The timer symbol (24) also appears.
14. Point the remote control at the configured device. After the time elapses, the remote control switches the device on and executes the saved button sequence.

## TIMER X CLEAR

Switching off programmed **TIMER X**. The "X" stands for 1, 2, 3 or 4.

1. Hold the **S** button (5) pressed until **CODE-SETUP** appears in the LCD display (2).
2. Press the down arrow button (6) repeatedly until **TIMER-SETUP** appears in the LCD display (2).
3. Press the right arrow button (6). **TV SLEEP SETUP** appears in the LCD display (2).
4. Press the down arrow button (6). **TIMER 1 SETUP** appears in the LCD display (2).

5. Press the down arrow button (6) repeatedly until the desired **TIMER** appears in the LCD display (2).
6. Press the right arrow button (6). **CONFIRM CLEAR** appears in the LCD display (2).
7. Press the right arrow button (6). First **SUCCESS** then **CODE SETUP** appears in the LCD display (2).
8. Press the **EXIT** button (8) repeatedly until the standard display appears in the LCD display (2).

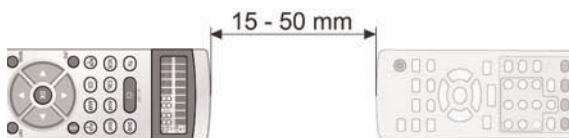
**Note:**

*If no button is pressed for approx. 30 seconds, the message "TIMEOUT" appears in the LCD display (2). Then the standard display is shown automatically.*

## LEARN-SETUP – Learning functions

The universal remote control can learn the button signals of an original remote control. Take note of the following points:

- The learning function can learn a maximum of 150 button signals.
- Use new batteries for the universal remote control and the original remote control.
- Maintain a distance of at least one metre to other light sources. The light sources could disrupt the infrared transmission.
- You can extend the configured device codes using the learning function.
- Place the universal remote control and the original remote control on a flat surface at a distance between 15 and 50 mm. See the graphic "Remote control spacing".



*Remote control spacing*

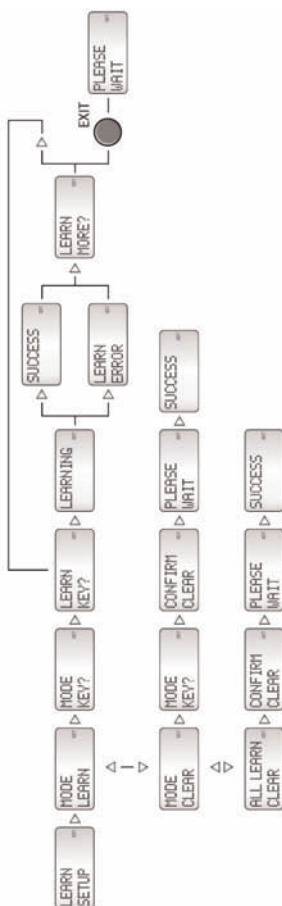
The "LEARN SETUP" menu offers the following functions:

**MODE LEARN** – Learn buttons for a device.

**MODE CLEAR** – Clear learned buttons for a device.

**ALL LEARN CLEAR** – Clear learned buttons for all devices.

## LEARN SETUP overview



## MODE LEARN

### **Note:**

Execute "ALL LEARN CLEAR" before executing "MODE LEARN" for the first time. See section "ALL LEARN CLEAR".

Learning the button signals of an original remote control.

1. Hold the **S** button (5) pressed until **CODE-SETUP** appears in the LCD display (2).
2. Press the down arrow button (6) repeatedly until **LEARN-SETUP** appears in the LCD display (2).
3. Press the right arrow button (6). **MODE LEARN** appears in the LCD display (2).
4. Press the right arrow button (6). **MODE KEY** appears in the LCD display (2).
5. Press the desired device button (4). **LEARN KEY** appears on the LCD display (2).
6. Press the desired button on the universal remote control. For example, the playback button (14) **PLAY**. **LEARNING** appears in the LCD display (2).

**i Note:**

If "LEARN ERROR" appears in the LCD display (2), repeat the learning function process starting from step 5.

7. Hold the button on the original remote control pressed until first **SUCCESS** then **LEARN MORE?** appears in the LCD display (2).

**i Note:**

To end the learning function, press the **EXIT** button (8).

8. Press the right arrow button (6) to learn more buttons. **LEARN MORE?** appears in the LCD display (2). Repeat steps 5 to 7 to learn more buttons.

## MODE CLEAR

Clearing the learned buttons of a device.

1. Hold the **S** button (5) pressed until **CODE-SETUP** appears in the LCD display (2).
2. Press the down arrow button (6) repeatedly until **LEARN-SETUP** appears in the LCD display (2).
3. Press the right arrow button (6). **MODE LEARN** appears on the LCD display (2).
4. Press the down arrow button (6) repeatedly until **MODE CLEAR** appears in the LCD display (2).
5. Press the right arrow button (6). **MODE KEY?** appears in the LCD display (2).
6. Press the desired device button (4). **CONFIRM CLEAR** appears in the LCD display (2).
7. Press the right arrow button (6). First **PLEASE WAIT...** then **SUCCESS** appears in the LCD display (2).

## ALL LEARN CLEAR

Clearing the learned buttons of all devices.

1. Hold the **S** button (5) pressed until **CODE-SETUP** appears in the LCD display (2).
2. Press the down arrow button (6) repeatedly until **LEARN-SETUP** appears in the LCD display (2).
3. Press the right arrow button (6). **MODE LEARN** appears in the LCD display (2).
4. Press the down arrow button (6) repeatedly until **ALL LEARN CLEAR** appears in the LCD display (2).
5. Press the right arrow button (6). **CONFIRM CLEAR** appears in the LCD display (2).
6. Press the right arrow button (6). First **PLEASE WAIT...** then **SUCCESS** appears in the LCD display (2).

Then the standard display appears.

# MACRO-SETUP – Macro functions

With the macro function, you can save a sequence of button presses. The saved macro can be loaded with the **MACRO** button (11) and the number buttons (13) 1, 2 or 3. The saved button sequence is executed automatically.

An example of a button sequence would be:

- Switch on television.
- Change television channel.
- Switch on VCR.
- Record programme.

The macro function can store three different macros. Each macro can contain a maximum sequence of ten buttons.

## MACRO-SETUP overview



## MACRO SET

Programming and saving a macro.

1. Hold the **S** button (5) pressed until **CODE-SETUP** appears in the LCD display (2).
2. Press the down arrow button (6) repeatedly until **MACRO-SETUP** appears in the LCD display (2).
3. Press the right arrow button (6). **MACRO SET** appears in the LCD display (2).
4. Press the right arrow button (6). **MACRO KEY?** appears in the LCD display (2).
5. Press the number button (13) 1, 2 or 3. The LCD display (2) shows **MACRO 1 MOD.?**, for example.
6. Press the desired device button (4). **MACRO 1 KEY! 02** appears in the LCD display (2).

### **i Note:**

After the tenth button press, the macro is automatically saved.

To save the macro at an earlier point, press the button **MACRO** (11).

7. Press the desired button sequence. With each button press, the counter goes up by one: **MACRO1 KEY? 03**, **MACRO 1 KEY? 04** etc. After the tenth button press, the macro is saved and **SUCCESS** appears in the LCD display (2).

### **i Note:**

Note the programmed macros in the table "Personal macros" at the end of these operating instructions.

## Playing back a saved macro

### **i Note:**

The remote control must remain pointed at the device.

1. Press the **MACRO** button (11). **MACRO KEY?** appears in the LCD display (2).

### **i Note:**

If no macro is saved under 1, for example, **MACRO 1 VOID** appears in the LCD display (2).

2. Press the number button (13) **1**, **2** or **3**. The LCD display (2) shows **MACRO 1**, for example. The infrared symbol (22) blinks and the saved button sequence is sent.

## MACRO CLEAR

Clearing a saved macro.

1. Hold the **S** button (5) pressed until **CODE-SETUP** appears in the LCD display (2).
2. Press the down arrow button (6) repeatedly until **MACRO SETUP** appears in the LCD display (2).
3. Press the right arrow button (6). **MACRO SET** appears in the LCD display (2).
4. Press the down arrow button (6). **MACRO CLEAR** appears in the LCD display (2).
5. Press the right arrow button (6). **MACRO KEY?** appears in the LCD display (2).
6. Press the number button (13) **1**, **2** or **3**. **CONFIRM CLEAR** appears in the LCD display (2).
7. Press the right arrow button (6). First **PLEASE WAIT...** then **SUCCESS** appears in the LCD display (2).

# Maintenance and Cleaning

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## Battery maintenance

### Memory function

The device codes and learned buttons are retained during a battery change.

The following are immediately deleted:

Time information and the lighting time for the backlight of the LCD display (2).

These settings must be entered again after a battery change.

Change the batteries...

- once per year.
- when the LCD display (2) is difficult to read.
- when the remote control does not react to button presses.

## Cleaning the remote control

### **Warning!**

*If moisture enters into the device, the remote control could be irreparably damaged!*

Clean the housing and buttons of the remote control only with a slightly damp cloth and a mild cleanser. Ensure that no moisture enters the remote control during cleaning!

## Disposal

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**Do not dispose of the device in your normal domestic waste. This product is subject to the European directive 2002/96/EC.**

Dispose of the device through an approved disposal centre or at your community waste facility.

Observe the currently applicable regulations. In case of doubt, please contact your waste disposal centre.

### Disposal of batteries

Used batteries/rechargeable batteries may not be disposed of in household waste. Every consumer is legally obliged to dispose of batteries at a collection site of his community/city district or at a retail store.

The purpose of this obligation is to ensure that batteries are disposed of in a non-polluting manner. Only dispose of batteries when they are fully discharged.



Dispose of all packaging materials in an environmentally friendly manner.

# Troubleshooting

Problem	Possible cause	Solution
Universal remote control does not respond	Device (e.g. TV) is defective.	Check functioning of the device (e.g. TV) with the original remote control.
	Batteries are inserted incorrectly.	Insert the batteries into the battery compartment with the correct polarity.
	Batteries are empty.	Insert new batteries.
Device codes are not saved.	Batteries are empty.	Insert new batteries.
LCD display (2) is dim.	Batteries are empty.	Insert new batteries.
Device only partially reacts to a button press.	Device code is incorrect.	Enter a different device code of the manufacturer.
		Searching for the device code with the AUTOSEARCH function.
Buttons of an original remote control cannot be learned.	The distance between the remote controls is too large or too small.	Change the distance.
	The button on the original remote control is not functioning.	Check functioning of the original button. Does the device respond to pressing the button on the original remote control?



## Technical data

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Manufacturer:	Kompernaß GmbH
Device type:	10-in-1 universal remote control
Model:	KH 2150
Controllable devices	10
Dimensions L x W x H:	200 x 48 x 22 mm
Weight :	92 g
Infrared transmitter frequency:	>100 kHz
Range:	8 m
Angle:	50°
Laser:	Laser class 1
Power supply	
Battery:	2 x 1.5 V, type AAA/LR03 (micro)

## Manufacturer codes

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One manufacturer code applies to multiple manufacturers.  
For example, enter the code 3 for a Sharp device.

Button	Manufacturer
1	Medion, Tchibo
2	Eye, Philco, Philips, Pye, Radiola
3	Akai, Daewoo, JVC, Panasonic, Sharp, Sony, Toshiba
4	Brandt, Fergusson, Thomson
5	Nordmende, Saba, Telefunken
6	Blaupunkt, Grundig

## Personal macros

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Steps	Macro button		
	1	2	3
1			
2			
3			
4			
5			
6			
7			
8			
9			
10			

## Personal device codes

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Button	Device	Device code
TV		
DVD		
VCR		
CBL		
ASAT		
DSAT		
AUX 1		
CD		
AMP		
AUX 2		

## Conformity

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The first party placing the product KH 2150 and all its accessories on the market and bearing responsibility in accordance with the German Equipment and Product Safety Act (GPSG) as well as for compliance with the directives on use of the CE mark is:

KOMPERNASS GMBH  
BURGSTRASSE 21  
44867 BOCHUM, GERMANY

The conformity declaration can be requested from the first party placing the product on the market.

## Importer

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KOMPERNASS GMBH  
BURGSTRASSE 21  
44867 BOCHUM, GERMANY

[www.kompernass.com](http://www.kompernass.com)

## Warranty and Service

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You receive a 3-year warranty for this device as of the purchase date. Should you have grounds for complaint in spite of our high quality standards, please contact our Service Hotline. In the event that processing of your complaint is not possible by telephone here you will receive

- a processing number (RMA number) as well as
- an address, to which you can send your product for warranty processing.

In the case of a mail-in shipment, please enclose a copy of the purchase receipt (sales slip). The device must be securely packed and the RMA number clearly visible. Products sent in without the RMA number cannot be processed.

### **Note:**

*The warranty provisions cover only material or factory defects.*

*The warranty is not valid;*

- *for worn out parts*
- *damage to breakable parts like switches or rechargeable batteries.*

This product is for private use only and is not intended for commercial use. In the event of misuse and improper handling, use of force and manipulations not carried out by our authorised service centre, the warranty will become void.

Your statutory warranty claims are not restricted by this warranty.

Fill in this section and submit it with the device!



**UNIVERSAL REMOTE  
CONTROL KH 2150**

In order to guarantee a cost free repair procedure please get in touch with the service hotline. Make sure you have your sales slip handy.

Sender, please write clearly:

Last name

First name

Street

Zipcode/City

Country

Telephone

Date/Signature

# Warranty

**GB** DES Ltd

Tel.: 0870/787-6177

Fax: 0870/787-6168

e-mail: support.uk@kompernass.com

**IE** Irish Connection

Tel: 00353 (0) 87 99 62 077

Fax: 00353 1 8398056

e-mail: support.ie@kompernass.com

[www.mysilvercrest.de](http://www.mysilvercrest.de)



**Description of fault:**

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